

10/523250

DT05 PCT/PTO 26 JAN 2005  
PATENT  
Docket No. 416272003800  
B01-075

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January 26 2005

Signature: 

(LILIA OLSEN)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Marc K. HELLERSTEIN

Serial No.: Not Yet Assigned

Filing Date: Concurrently Herewith

For: METHOD FOR AUTOMATED, LARGE-  
SCALE MEASUREMENT OF THE  
SYNTHESIS AND BREAKDOWN OR  
REMOVAL RATES OF THE  
PROTEOME OR THE ORGANEOME  
USING MASS SPECTROMETRY

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS: PCT - ATTN: DO/EO/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☒ **With the application; accordingly, no fee or separate requirements are required.**
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☐ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
  - ☐ A fee is required. A check in the amount of \_\_ is enclosed.
  - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of \_\_ is enclosed.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Application. No. Not Yet Assigned  
Information Disclosure Statement

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Docket No. 416272003800

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petitions for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing (Docket no. 416272003800). However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: January 24, 2005

Respectfully submitted,

By Michael R. Ward  
Michael R. Ward  
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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	416272003800

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1.	International Search Report mailed on August 18, 2004, for PCT application no. PCT/US03/23340 filed on July 25, 2003, 4 pages.	
	2.	BIER, D. M. "Stable Isotopes in Biosciences, Their Measurement and Models for Amino Acid Metabolism," European Journal of Pediatrics (1997) Vol. 156 [Suppl 1], pages S2-S8	
	3.	GYGI, S. P. et al. "Using Mass Spectrometry for Quantitative Proteomics," Proteomics: A Friends Guide. (July 2000) pages 31-36	
	4.	HANSEN, A. P. et al. "A Practical Method for Uniform Isotopic Labeling of Recombinant Proteins in Mammalian Cells," Biochemistry (29 December 1992) Vol. 31, No. 51, pages 12713-12718	
	5.	ONG, S. et al. "Stable Isotope Labeling by Amino Acids in Cell Culture, SILAC, as a Simple and Accurate Approach to Expression Proteomics," Molecular & Cellular Proteomics (2002) Vol. 1, pages 376-386	
	6.	PAPAGEORGIOPOULOS, C. et al. "Measuring Protein Synthesis by Mass Isotopomer Distribution Analysis (MIDA)," Analytical Biochemistry (1999) Vol. 267, pages 1-16	
	7.	PASA-TOLIC, L. et al. "High Throughput Proteome-Wide Precision Measurements of Protein Expression Using Mass Spectrometry," Journal of the American Chemical Society (1999) Vol. 121, pages 7949-7950	
	8.	SHEVCHENKO, A. et al. "Rapid 'de Novo' Peptide Sequencing by a Combination of Nanoelectrospray, Isotopic Labeling and a Quadrupole/Time-of-flight Mass Spectrometer," Rapid Communications in Mass Spectrometry (1997) Vol. 11, pages 1015-1024	
	9.	VEENSTRA, T. D. et al. "Proteome Analysis Using Selective Incorporation of Isotopically Labeled Amino Acids," Journal of the American Society for Mass Spectrometry (2000) Vol. 11, pages 78-82	

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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